

Granny Storm Crow's MMJ Reference List- July 2011

This year's message to all of you is a little different. I am going to be explaining a major scientific discovery- the Omega 3 / CB1 connection, and how it affects your healing with cannabis! But to understand fully this discovery, we need to revisit Biology 101.

Every cell in your body has tiny chemical receptors all over the cell's "skin" or cell membrane. These receptors work kind of like an ignition switch- you put the right type of chemical "key" into a receptor and it "turns on" some kind of action. The type 1 cannabinoid receptors (CB1s) are the ones we are interested in looking at. They are found in the body and the brain.

"Turning on" a CB1 receptor with either an endocannabinoid that your body makes, or a phytocannabinoid like THC, can result in many different things occurring. A cancer cell may be "told" to die through a process called *apoptosis*, it may activate a basic instinct such as nursing, soothe an irritated digestive tract, or simply ease your pain. The CB1 receptors in your brain are the ones to blame, or praise, for the cannabis "high".

Every time a cell divides, whether it is a brain cell, or a body cell, it needs to make new "skin" to grow back to its full size, and that involves making a whole bunch of new receptors.

And this is where the cutting-edge science starts-- to make functional CB1 receptors, you absolutely need Omega 3! In "***Nutritional omega-3 deficiency abolishes endocannabinoid-mediated neuronal functions***", the Omega 6-rich "western diet" is implicated in our declining mental and physical health. The "ideal" proportion of Omega 6 to Omega 3 is around 3 to 4 parts Omega 6 to 1 part Omega 3. Our "western diet" can deliver up to a 50 to 1 ratio!

When no Omega 3 is available, our bodies will "jury-rig" a new receptor with an Omega 6 where there should be an Omega 3. This results in a small, but important chunk, the Gi/o effector protein, not getting attached. As with a machine, the pieces need to be assembled right to work!

A drop in the number of working CB1 receptors is an early clinical sign in Parkinson's, colon cancer, Huntington's, and heralds a high risk for premature birth. Mice bred to be low in CB1 receptors have more severe heart attacks and strokes. Cancers ravage them. They age and become senile earlier than normal mice. They are used to study neurological conditions and bowel disorders. They often seem depressed. They sound a lot like many modern Americans.

The three most common sources of Omega 3 are fish oil, flax seed oil and hemp seed oil.

Cannabis is an effective and safe herbal medicine, but we need functioning CB1 receptors for it to work its miracles. Virtually every person needs more Omega 3 in their diet, but none as much as the medical users of cannabis! Cannabis heals us using our cannabinoid receptors, and also provides the Omega 3 we need to make healthy CB receptors, so we can heal. And that is the simple, but scientific truth.

If the truth won't do, then something is wrong!

It Is Time for Marijuana to Be Reclassified as Something Other Than a Schedule I Drug!
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ACEA/ ARACHIDONYL-2'-CHLOROETHYLAMIDE - endocannabinoid, CB1 agonist

In vivo effects of CB1 receptor ligands on lipid peroxidation and antioxidant defense systems in the rat brain of healthy and ethanol-treated rats. (full – 2006)
http://www.if-pan.krakow.pl/pjp/pdf/2006/6_876.pdf

Arachidonyl-2'-chloroethylamide, a highly selective cannabinoid CB1 receptor agonist, enhances the anticonvulsant action of valproate in the mouse maximal electroshock-induced seizure model. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16930590>

Opposing control of cannabinoid receptor stimulation on amyloid-beta-induced reactive gliosis: in vitro and in vivo evidence. (full - 2007)
<http://jpet.aspetjournals.org/content/322/3/1144.long>

Ultra-low dose cannabinoid antagonist AM251 enhances cannabinoid anticonvulsant effects in the pentylenetetrazole-induced seizure in mice. (abst – 2007)
<http://www.ncbi.nlm.nih.gov/pubmed/17870135>

Attenuation of Experimental Autoimmune Hepatitis by Exogenous and Endogenous Cannabinoids: Involvement of Regulatory T Cells (full - 2008)
<http://molpharm.aspetjournals.org/content/74/1/20.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT#content-block>

Cannabinoid modulation of cutaneous Adelta nociceptors during inflammation.
(full – 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2585399/?tool=pubmed>

Cannabinoid-mediated antinociception is enhanced in rat osteoarthritic knees.
(full – 2008) <http://onlinelibrary.wiley.com/doi/10.1002/art.23156/full>

Cannabinoid receptor activation induces apoptosis through tumor necrosis factor alpha-mediated ceramide de novo synthesis in colon cancer cells. (full – 2008)
<http://clincancerres.aacrjournals.org/content/14/23/7691.long>

Endogenous cannabinoids induce fever through the activation of CB1 receptors.
(full – 2009)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765314/?tool=pubmed>

The effects of intracerebroventricular AM-251, a CB1-receptor antagonist, and ACEA, a CB1-receptor agonist, on penicillin-induced epileptiform activity in rats. (full – 2009)
<http://onlinelibrary.wiley.com/doi/10.1111/j.1528-1167.2009.02098.x/full>

Involvement of nitrgic system in the anticonvulsant effect of the cannabinoid CB(1) agonist ACEA in the pentylenetetrazole-induced seizure in mice. (abst – 2009)
<http://www.ncbi.nlm.nih.gov/pubmed/19223154>

Involvement of nitric oxide in the gastroprotective effect of ACEA, a selective cannabinoid CB1 receptor agonist, on aspirin-induced gastric ulceration. (abst – 2009)
<http://www.ncbi.nlm.nih.gov/pubmed/19827302>

Effect of arachidonyl-2'-chloroethylamide, a selective cannabinoid CB1 receptor agonist, on the protective action of the various antiepileptic drugs in the mouse maximal electroshock-induced seizure model. (abst – 2009)
<http://www.ncbi.nlm.nih.gov/pubmed/19751793>

Role of cannabinoid CB1 receptors on macronutrient selection and satiety in rats. (abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19150453>

Regulatory Role of Cannabinoid Receptor 1 in Stress-Induced Excitotoxicity and Neuroinflammation (abst - 2010)
<http://www.nature.com/npp/journal/vaop/ncurrent/full/npp2010214a.html>

Alkamides and a neolignan from Echinacea purpurea roots and the interaction of alkamides with G-protein-coupled cannabinoid receptors. (abst – 2011)
<http://www.ncbi.nlm.nih.gov/pubmed/21764086>

ADD/ ADHD

ADHD by Ryan P (anecdotal - no date)
http://www.rxmarijuana.com/shared_comments/ADHD4.htm

Marijuana and ADD Therapeutic uses of Medical Marijuana in the treatment of ADD (no date) <http://www.onlinepot.org/medical/add&mmj.htm>

How Cannabis Compares to other treatments (no date - 2008)
<http://dcsafeaccess.org/medical/how-cannabis-compares-to-other-treatments/>

Recipe For Trouble (anecdotal/ news - 2002)
<http://www.cbsnews.com/stories/2002/03/05/48hours/main503022.shtml>

Association between cannabinoid receptor gene (CNR1) and childhood attention deficit/hyperactivity disorder in Spanish male alcoholic patients (full - 2003)
<http://www.nature.com/mp/journal/v8/n5/full/4001278a.html>

Cannabinoids effective in animal model of hyperactivity disorder (abst - 2003)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=162#4

Cannabis 'Scripts to Calm Kids? (news - 2004)

<http://www.foxnews.com/story/0,2933,117541,00.html>

Fitness to drive in spite (because) of THC (abst - 2007)

http://www.unboundmedicine.com/medline/ebm/record/17879702/abstract/%5BFitness_to_drive_in_spite_because_of_THC%5D

Science: THC normalized impaired psychomotor performance and mood in a patient with hyperactivity disorder (news - 2007)

http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=254

Association of the Cannabinoid Receptor Gene (CNR1) With ADHD and Post-Traumatic Stress Disorder (full - 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2685476/?tool=pubmed>

Cannabis Improves Symptoms of ADHD (full - 2008)

http://www.cannabis-med.org/english/journal/en_2008_01_1.pdf

Cannabis use and adult ADHD symptoms. (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18242878>

Autism, ADD, ADHD and Marijuana Therapy (news - 2008)

<http://www.entheology.org/edoto/anmviewer.asp?a=319>

Why I Give My 9-year-old Pot (anecdotal/news - 2009)

<http://www.doublex.com/section/health-science/why-i-give-my-9-year-old-pot>

Why I Give My 9-Year-Old Pot, Part II (news/anecdotal - 2009)

<http://www.doublex.com/section/health-science/why-i-give-my-9-year-old-pot-part-ii>

Science: Cannabis effective in the treatment of TOURETTE Syndrome and attention deficit hyperactivity disorder (ADHD) (news – 2010)

http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=323&search_pattern=tourette#2

ADDICTION

Abuse potential of dronabinol (Marinol). (abst – 1998)

<http://www.ncbi.nlm.nih.gov/pubmed/9692381>

Relative Addictiveness of Various Substances (full - 1990)

<http://www.ukcia.org/research/addictiv.htm>

Anandamide, an Endogenous Cannabinoid, Has a Very Low Physical Dependence Potential (full - 1998)

<http://jpet.aspetjournals.org/content/287/2/598.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=480&resourcetype=HWCIT>

Dependency and Cannabis (full - 1999) http://www.mikuriya.com/cw_depend.html

Delta9-tetrahydrocannabinol releases and facilitates the effects of endogenous enkephalins: reduction in morphine withdrawal syndrome without change in rewarding effect. (abst – 2001) <http://www.ncbi.nlm.nih.gov/pubmed/11359533>

Chronic Morphine Modulates the Contents of the Endocannabinoid, 2-Arachidonoyl Glycerol, in Rat Brain (full - 2003)

<http://www.nature.com/npp/journal/v28/n6/full/1300117a.html>

Long term marijuana users seeking medical cannabis in California (2001–2007): demographics, social characteristics, patterns of cannabis and other drug use of 4117 applicants (full - 2007) <http://www.harmreductionjournal.com/content/4/1/16>

Lack of behavioral sensitization after repeated exposure to THC in mice and comparison to methamphetamine (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2637562/?tool=pubmed>

Merck Manual - Marijuana (Cannabis) (excerpt - 2008)

<http://www.merckmanuals.com/professional/sec23/ch352/ch352i.html?qt=marijuana&alt=sh>

Study of 4000 indicates marijuana discourages use of hard drugs. (news - 2008)

<http://www.csdp.org/publicservice/medicalmj08.htm>

Calling B.S. on the Idea of 'Marijuana Addiction' (news – 2008)

<http://www.alternet.org/drugs/80408/?page=entire>

When Your Kid Smokes Pot (forum post/news – 2008)

<http://forum.grasscity.com/general-marijuana-news-around-world/651462-when-your-kid-smokes-pot.html>

Adolescent Exposure to Chronic Delta-9-Tetrahydrocannabinol Blocks Opiate Dependence in Maternally Deprived Rats (full - 2009)

<http://www.nature.com/npp/journal/v34/n11/full/npp200970a.html>

The Surprising Effect Of Marijuana On Morphine Dependence (news - 2009)

http://www.redorbit.com/news/health/1716066/the_surprising_effect_of_marijuana_on_morphine_dependence/

Active Ingredient In Cannabis Eliminates Morphine Dependence In Rats (news - 2009)

<http://www.sciencedaily.com/releases/2009/07/090706090440.htm>

Four percent of adults worldwide using cannabis (news – 2009)

<http://www.independent.co.uk/life-style/health-and-families/health-news/four-percent-of-adults-worldwide-using-cannabis-1804190.html>

Medical marijuana users in substance abuse treatment. (full – 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2848643/?tool=pubmed>

Teen Pot Smoking Won't Lead to Other Drugs as Adults (news - 2010)

<http://www.webmd.com/parenting/news/20100902/teen-pot-smoking-wont-lead-to-other-drugs-as-adults>

Aerobic Exercise Training Reduces Cannabis Craving and Use in Non-Treatment Seeking Cannabis-Dependent Adults (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3050879/?tool=pmcentrez>

Abuse potential and psychoactive effects of δ -9-tetrahydrocannabinol and cannabidiol oromucosal spray (Sativex), a new cannabinoid medicine. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21542664>

Exercise can reduce cannabis use in persons who don't want to stop (news – 2011)

<http://www.news-medical.net/news/20110304/Exercise-can-reduce-cannabis-use-in-persons-who-dont-want-to-stop.aspx>

2-AG / 2-ARACHIDONOYLGLYCEROL endocannabinoid, CB1 & 2

2-Arachidonoylglycerol: A Possible Endogenous Cannabinoid Receptor Ligand in Brain

(abst – 1995) <http://www.sciencedirect.com/science/article/pii/S0006291X85724370>

A Second Endogenous Cannabinoid That Modulates Long-term Potentiation.

(abst – 1997)

<http://medical-journals.healio.com/doc/9285589/A-second-endogenous-cannabinoid-that-modulates-long-term-potentiation>

Brain Chemicals Mimic Marijuana (news - 1997)

<http://www.ukcia.org/research/anandami.php>

2-Arachidonoyl-glycerol as an "endocannabinoid": limelight for a formerly neglected metabolite. (abst - 1998)

<http://www.ncbi.nlm.nih.gov/pubmed/9526090>

Evidence That the Cannabinoid CB1 Receptor Is a 2-Arachidonoylglycerol Receptor

(full – 1999) <http://www.jbc.org/content/274/5/2794.long>

Endocannabinoids control spasticity in a multiple sclerosis model (full - 2000)

<http://www.fasebj.org/cgi/reprint/00-0399fjev1?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT>

Endocannabinoid 2-arachidonyl glycerol is a full agonist through human type 2 cannabinoid receptor: antagonism by anandamide. (full – 2000)

<http://molpharm.aspetjournals.org/content/57/5/1045.long>

Endocannabinoids and Vascular Function (full - 2000)

<http://jpet.aspetjournals.org/content/294/1/27.long>

Cardiovascular effects of endocannabinoids--the plot thickens. (abst - 2000)

http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list_uids=10785543&dopt=abstractplus

Despite substantial degradation, 2-arachidonoylglycerol is a potent full efficacy agonist mediating CB(1) receptor-dependent G-protein activation in rat cerebellar membranes.

(full – 2001) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572991/?tool=pubmed>

Endogenous cannabinoids mediate hypotension after experimental myocardial infarction (full - 2001)

<http://content.onlinejacc.org/cgi/content/full/38/7/2048?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=560&resourcetype=HWCIT>

Inhibition of Rat C6 Glioma Cell Proliferation by Endogenous and Synthetic Cannabinoids. Relative Involvement of Cannabinoid and Vanilloid Receptors

(full - 2001) <http://jpet.aspetjournals.org/content/299/3/951.full>

Cannabinoid CB1-receptor mediated regulation of gastrointestinal motility in mice in a model of intestinal inflammation (full - 2001)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572987/?tool=pmcentrez>

2-Arachidonyl glyceryl ether, an endogenous agonist of the cannabinoid CB1 receptor

(full - 2001) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC31108/>

An endogenous cannabinoid (2-AG) is neuroprotective after brain injury.

(abst - 2001) <http://www.ncbi.nlm.nih.gov/pubmed/11586361>

Activation of PAF receptors results in enhanced synthesis of 2-arachidonoylglycerol (2-AG) in immune cells (full - 2002)

<http://www.fasebj.org/cgi/content/full/15/12/2171?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT>

The potent emetogenic effects of the endocannabinoid, 2-AG (2-arachidonoylglycerol) are blocked by delta(9)-tetrahydrocannabinol and other cannabinoids. (full – 2002)

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Comparison of the enzymatic stability and intraocular pressure effects of 2-arachidonoylglycerol and noladin ether, a novel putative endocannabinoid. (full – 2002)

<http://www.iovs.org/content/43/10/3216.full>

Endocannabinoid levels in rat limbic forebrain and hypothalamus in relation to fasting, feeding and satiation: stimulation of eating by 2-arachidonoyl glycerol. (full – 2002)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573386/?tool=pubmed>

Changes in endocannabinoid contents in the brain of rats chronically exposed to nicotine, ethanol or cocaine. (abst – 2002) <http://www.ncbi.nlm.nih.gov/pubmed/12393235>

Endocannabinoids protect the rat isolated heart against ischaemia (full - 2003)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573907/?tool=pmcentrez>

Chronic Morphine Modulates the Contents of the Endocannabinoid, 2-Arachidonoyl Glycerol, in Rat Brain (full - 2003)
<http://www.nature.com/npp/journal/v28/n6/full/1300117a.html>

Role of Endogenous Cannabinoids in Synaptic Signaling (full - 2003)
<http://physrev.physiology.org/cgi/content/full/83/3/1017?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT>

The Endogenous Cannabinoid System Regulates Seizure Frequency and Duration in a Model of Temporal Lobe Epilepsy (full - 2003)
<http://jpet.aspetjournals.org/content/307/1/129.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT>

Manipulation of the endocannabinoid system by a general anaesthetic. (full – 2003)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573927/?tool=pubmed>

Cannabinoid influences on palatability: microstructural analysis of sucrose drinking after delta(9)-tetrahydrocannabinol, anandamide, 2-arachidonoyl glycerol and SR141716. (abst – 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12447606>

Short-term fasting and prolonged semistarvation have opposite effects on 2-AG levels in mouse brain. (abst – 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12914975>

The endocannabinoid system: a general view and latest additions (full - 2004)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574255/?tool=pmcentrez>

New perspectives in the studies on endocannabinoid and cannabis: 2-arachidonoylglycerol as a possible novel mediator of inflammation (full - 2004)
http://www.jstage.jst.go.jp/article/jphs/96/4/367/_pdf

2-Arachidonoylglycerol A Novel Inhibitor of Androgen-Independent Prostate Cancer Cell Invasion (full - 2004)
<http://cancerres.aacrjournals.org/cgi/content/full/64/24/8826?ikey=951f5f9d238bdf059cf30ee2be3a5a31aaf2b094>

The endocannabinoid-CB receptor system: Importance for development and in pediatric disease. (abst - 2004) <http://www.ncbi.nlm.nih.gov/pubmed/15159678>

A new class of inhibitors of 2-arachidonoylglycerol hydrolysis and invasion of prostate cancer cells (full – 2005) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1450257/>

Analgesia through endogenous cannabinoids (full - 2005)
<http://www.cmaj.ca/cgi/content/full/173/4/357?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=endocannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=date&resourcetype=HWCIT>

CB1 cannabinoid receptor-mediated modulation of food intake in mice (full - 2005)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576140/?tool=pmcentrez>

Effects of cannabinoids on colonic muscle contractility and tension in guinea pigs.
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The endocannabinoid 2-AG protects the blood-brain barrier after closed head injury and inhibits mRNA expression of proinflammatory cytokines. (abst - 2005)
<http://lib.bioinfo.pl/pmid:16364651>

Body's Own Marijuana-Like Compounds Are Crucial For Stress-Induced Pain Relief
(news - 2005) <http://www.sciencedaily.com/releases/2005/06/050628064435.htm>

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<http://jcem.endojournals.org/cgi/content/full/91/8/3171?ikey=83a68cef202eafe129332eda53eee8eb61349982>

Endocannabinoids, feeding and suckling – from our perspective (full – 2006)
<http://www.nature.com/ijo/journal/v30/n1s/full/0803274a.html>

Not Too Excited? Thank Your Endocannabinoids (full - 2006)
<http://www.sciencedirect.com/science/article/pii/S0896627306005927>

Experimental autoimmune encephalomyelitis disrupts endocannabinoid-mediated neuroprotection (full - 2006)
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Weight Control in Individuals With Diabetes (full - 2006)
<http://care.diabetesjournals.org/content/29/12/2749.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2000&resourcetype=HWCIT>

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Monoacylglycerol lipase inhibition by organophosphorus compounds leads to elevation of brain 2-arachidonoylglycerol and the associated hypomotility in mice. (abst – 2006)
<http://www.ncbi.nlm.nih.gov/pubmed/16310817>

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<http://www.ncbi.nlm.nih.gov/pubmed/16678907>

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The CB1 Cannabinoid Receptor Mediates Excitotoxicity-induced Neural Progenitor Proliferation and Neurogenesis (full - 2007) <http://www.jbc.org/content/282/33/23892.full>

Endocannabinoids and the haematological system (full - 2007)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190025/?tool=pmcentrez>

Increased endocannabinoid levels reduce the development of precancerous lesions in the mouse colon (full - 2007)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2755791/?tool=pmcentrez>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2565646/?tool=pubmed>

Pharmacological enhancement of the endocannabinoid system in the nucleus accumbens shell stimulates food intake and increases c-Fos expression in the hypothalamus. (full – 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2042935/?tool=pubmed>

Cannabinoid-2 receptor mediates protection against hepatic ischemia/reperfusion injury (full - 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228252/?tool=pmcentrez>

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<http://www.nature.com/oby/journal/v15/n4/full/oby2007100a.html>

Endocannabinoids block status epilepticus in cultured hippocampal neurons (full - 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2617750/?tool=pmcentrez>

Chronologically overlapping occurrences of nicotine-induced anxiety- and depression-related behavioral symptoms: effects of anxiolytic and cannabinoid drugs (full - 2007)
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2-AG + 2 new players = forecast for therapeutic advances. (full – 2007)
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CB2 receptors in the brain: role in central immune function (full - 2007)

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Opposing Actions of Endocannabinoids on Cholangiocarcinoma Growth (full - 2007)

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Endocannabinoids, cannabinoid receptors and inflammatory stress: an interview with Dr. Pál Pacher (interview - 2007)

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The endocannabinoids anandamide and 2-arachidonoylglycerol inhibit cholinergic contractility in the human colon. (abst – 2007)

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The cannabinoid CB1 receptor regulates bone formation by modulating adrenergic signaling. (full - 2008)

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AM- 281 - synthetic, CB1 antagonist

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Effects of AM281, a cannabinoid antagonist, on circulatory deterioration and cytokine production in an endotoxin shock model: comparison with norepinephrine. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/17072693>

AM-404 – synthetic, CB1 agonist

Synergistic Interactions between Cannabinoids and Environmental Stress in the Activation of the Central Amygdala (full - 2005) <http://www.nature.com/npp/journal/v30/n3/full/1300535a.html>

Enhancing Cannabinoid Neurotransmission Augments the Extinction of Conditioned Fear (full - 2005) <http://www.nature.com/npp/journal/v30/n3/full/1300655a.html>

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The anandamide transport inhibitor AM404 reduces the rewarding effects of nicotine and nicotine-induced dopamine elevations in the nucleus accumbens shell in rats (abst – 2011) [http://www.unboundmedicine.com/medline/ebm/record/21557729/abstract/The anandamide transport inhibitor AM404 reduces the rewarding effects of nicotine and nicotine induced dopamine elevations in the nucleus accumbens shell in rats](http://www.unboundmedicine.com/medline/ebm/record/21557729/abstract/The_anandamide_transport_inhibitor_AM404_reduces_the_rewarding_effects_of_nicotine_and_nicotine_induced_dopamine_elevations_in_the_nucleus_accumbens_shell_in_rats)

Pharmacological elevation of anandamide impairs short-term memory by altering the neurophysiology in the hippocampus. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21767554>

AM-630 - synthetic, CB2 antagonist

Cannabinoid CB2 receptor activation reduces mouse myocardial ischemia-reperfusion injury: involvement of cytokine/chemokines and PMN (full - 2003) <http://www.jleukbio.org/cgi/content/full/75/3/453?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT>

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Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor (full - 2008)
<http://endo.endojournals.org/cgi/content/full/149/11/5619?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT>

Attenuation of Experimental Autoimmune Hepatitis by Exogenous and Endogenous Cannabinoids: Involvement of Regulatory T Cells (full - 2008)
<http://molpharm.aspetjournals.org/content/74/1/20.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT#content-block>

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A nonsynonymous polymorphism in cannabinoid CB2 receptor gene is associated with eating disorders in humans and food intake is modified in mice by its ligands.
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AM-1241 - synthetic, CB 2

Activation of CB2 cannabinoid receptors by AM1241 inhibits experimental neuropathic pain: Pain inhibition by receptors not present in the CNS (full - 2003)
<http://www.pnas.org/content/100/18/10529.full>

New Compound That Acts On Peripheral Receptors May Be Promising Treatment For Some Nerve Pain (news - 2003)
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CB2 cannabinoid receptor activation produces antinociception by stimulating peripheral release of endogenous opioids (full - 2005) <http://www.pnas.org/content/102/8/3093.full>

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<http://jpet.aspetjournals.org/content/327/2/584.full#content-block>

Peripheral Cannabinoids Attenuate Carcinoma Induced Nociception in Mice

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2771220/>

The endocannabinoid system in amyotrophic lateral sclerosis. (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18781981>

Activation of the cannabinoid 2 receptor (CB2) protects against experimental colitis.

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<http://www.ncbi.nlm.nih.gov/pubmed/21094209>

Self-medication of a cannabinoid CB(2) agonist in an animal model of neuropathic pain.

(abst - 2011)

http://www.unboundmedicine.com/medline/ebm/record/21550725/abstract/Self_medication_of_a_cannabinoid_CB_2_agonist_in_an_animal_model_of_neuropathic_pain

AM-1346 - synthetic, CB1 agonist

Synthetic Cannabinoid May Aid Fertility In Smokers (news - 2006)

<http://www.medicalnewstoday.com/articles/58063.php>

Marijuana-like Chemical Can Restore Sperm Function Lost to Tobacco Abuse

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http://www.rxpgnews.com/specialtopics/article_5093.shtml

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<http://www.physorg.com/news137778721.html>

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Pharmacological characterization of AM1710, a putative cannabinoid CB(2) agonist from the cannabillactone class: Antinociception without central nervous system side-effects. (abst – 2011)

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AM- 4054 - synthetic, CB1 agonist

Behavioral Profile of the Novel Cannabinoid Agonist AM4054 (thesis- 2006)
http://digitalcommons.uconn.edu/cgi/viewcontent.cgi?article=1016&context=srhonors_theses&seidir=1#search=%22am-4054%20%2Bcannabinoid%22

Effects of a Selective Cannabinoid Agonist and Antagonist on Body Temperature in Rats (abst - 2007)

http://www.fasebj.org/cgi/content/meeting_abstract/21/5/A409?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT

AM- 4113 – synthetic, CB1 antagonist

Effects of a Selective Cannabinoid Agonist and Antagonist on Body Temperature in Rats (abst - 2007)

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<http://www.ncbi.nlm.nih.gov/pubmed/21056053>

AMOTIVATIONAL SYNDROME

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Operant acquisition of marihuana in man. (abst - 1976)

<http://jpet.aspetjournals.org/content/198/1/42.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT>

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Debunking the Amotivational Syndrome (news - 1995)

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<http://medical-journals.healio.com/doc/1470919/Isolation-and-structure-of-a-brain-constituent-that-binds-to-the-cannabinoid-receptor>

Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide. (full - 1993)

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<http://www.pnas.org/content/90/16/7656.full.pdf+html>

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Anandamide and delta 9-THC dilation of cerebral arterioles is blocked by indomethacin (abst - 1995)
<http://ajpheart.physiology.org/cgi/content/abstract/269/6/H1859?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=2320&resourcetype=HWCIT>

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